

**DECLARATION FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

**INDEX TUNABLE THIN FILM INTERFERENCE COATINGS**

which was filed on June 17, 2002, as Application No. 10/174,503, bearing Attorney Docket No. A00770/70059, as amended by the Preliminary amendment filed herewith.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below:

60/298,820	06/18/2001
(Application Number)	(filing date)
60/309,704	08/02/2001
(Application Number)	(filing date)
60/322,208	09/14/2001
(Application Number)	(filing date)
60/364,485	03/15/2002
(Application Number)	(filing date)

The undersigned hereby appoints the attorney(s) and/or agent(s) of Wolf, Greenfield & Sacks, P.C., having Customer Number



**23628**

to prosecute this application and all related divisional, continuing, substitute, renewal, reissue, re-exam, and to conduct all business in the Patent and Trademark Office connected therewith.

Direct all correspondence to:

**Gary S. Engelson**  
c/o Wolf, Greenfield & Sacks, P.C.,  
Federal Reserve Plaza  
600 Atlantic Avenue  
Boston, MA 02210-2211  
Tel. (617) 720-3500.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

*Lawrence H. Domash*

10-8-02

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**Inventor's signature****Date**

Full name first inventor: Lawrence DOMASH  
Citizenship: U.S.A.  
Residence: Conway, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

---

**Inventor's signature****Date**

Full name second inventor: Eugene MA  
Citizenship: U.S.A.  
Residence: Brookline, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

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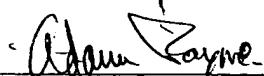
**Inventor's signature****Date**

Full name third inventor: Robert MURANO  
Citizenship: U.S.A.  
Residence: Malden, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

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**Inventor's signature****Date**

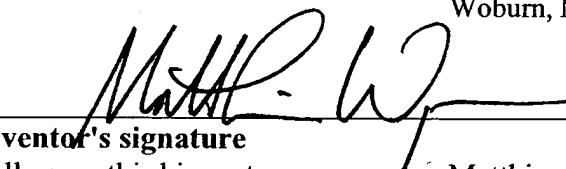
Full name third inventor: Nikolay NEMCHUK  
Citizenship: U.S.A.  
Residence: North Andover, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

**Inventor's signature**

Full name third inventor: Adam PAYNE  
Citizenship: U.S.A.  
Residence: Princeton, New Jersey  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

16 October 2002**Date****Inventor's signature**

Full name third inventor: Steven SHERMAN  
Citizenship: U.S.A.  
Residence: Boston ~~Arlington~~, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

10/15/02**Date****Inventor's signature**

Full name third inventor: Matthias WAGNER  
Citizenship: U.S.A.  
Residence: Boston, Massachusetts  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

10/15/02**Date****Inventor's signature**

Full name third inventor: Ming WU  
Citizenship: U.S.A.  
Residence: Princeton, New Jersey  
Post Office Address: Aegis Semiconductor  
78A Olympia Ave.  
Woburn, MA 01801

10/16/02**Date**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Applicant:** Lawrence Domash, et al.

**Application  
No.:** 10/174,503

**Filing Date:** June 17, 2002

**Entitled:** INDEX TUNABLE THIN FILM  
INTERFERENCE COATINGS

**Attorney Docket No.:** 111554.128 (US5)

Assistant Commissioner of Patents  
Washington, D.C. 20231

**REVOCATION OF PREVIOUS POWER OF ATTORNEY, APPOINTMENT  
OF NEW ATTORNEY, and CHANGE OF CORRESPONDENCE ADDRESS**

Commissioner:

The undersigned, Aegis Semiconductor, Inc. owner of the above-identified United States patent application, hereby revokes all powers of attorney previously granted and appoints the following practitioners with full power of substitution and revocation to prosecute the patent application and to transact all business in the Patent and Trademark Office connected therewith.

**CUSTOMER NUMBER: 23483**

All future correspondence should be sent to:

Eric L. Prahl  
Hale and Dorr LLP  
60 State Street  
Boston, MA 02109  
Telephone No.: (617) 526-6000  
Facsimile No.: (617) 526-5000

U.S.S.N. 10/174,503  
Domash, et al.

The undersigned states that Aegis Semiconductor, Inc. is the sole owner of the entire right, title, and interest by virtue of an Assignment recorded in the United States Patent and Trademark Office on December 10, 2002. A copy of the Assignment is attached.

By:

Lawrence H. Domash  
Lawrence H. Domash

Vice President, Advanced Development

Date:

11/19/02

RECORDATION FORM COVER SHEET

PATENTS ONLY

Tab settings ⇡ ⇢ ⇣

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Lawrence Domash; Eugene Ma; Robert Murano  
Nikolay Nemchuck; Adam Payne; Ming Wu;  
Steven Sherman; Matthias Wagner

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment       Merger  
 Security Agreement       Change of Name  
 Other Correction of Assignor's name  
to SHERMAN on 102320312A - Notice  
of Recordation of Assignment.  
10/16/02

Execution Date: \_\_\_\_\_

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 10/174,503

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric L. Prahl

Internal Address: Hale and Dorr LLP

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

08-0219

9. Signature.

Eric L. Prahl, Reg. No. 32,590

Name of Person Signing

Signature

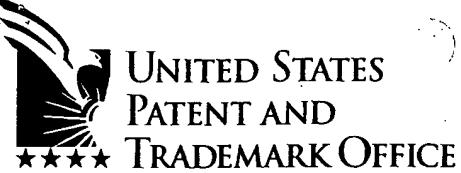
July 28, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231



APRIL 24, 2003

PTAS

Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
[www.uspto.gov](http://www.uspto.gov)

HALE AND DORR LLP  
ERIC L. PRAHL  
60 STATE STREET  
BOSTON, MA 02109



\*102320312A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/16/2002

REEL/FRAME: 013594/0615  
NUMBER OF PAGES: 9

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:  
DOMASH, LAWRENCE

DOC DATE: 10/02/2002

ASSIGNEE:  
MA, EUGENE

DOC DATE: 10/11/2002

ASSIGNEE:  
MURANO, ROBERT

DOC DATE: 10/11/2002

ASSIGNEE:  
NEMCHUK, NIKOLAY

DOC DATE: 10/15/2002

ASSIGNEE:  
PAYNE, ADAM

DOC DATE: 10/16/2002

ASSIGNEE:  
~~SHERMAN, STEVEN~~  
SHERMAN,

DOC DATE: 10/15/2002

ASSIGNEE:  
WAGNER, MATTHIAS

DOC DATE: 10/15/2002

013594/0615 PAGE 2

ASSIGNOR:  
WU, MING

DOC DATE: 10/16/2002

ASSIGNEE:  
AEGIS SEMICONDUCTOR, INC.  
170 COMMONWEALTH AVENUE, SUITE 204  
LAWRENCE, MASSACHUSETTS 01840

SERIAL NUMBER: 10174503  
PATENT NUMBER:

FILING DATE: 06/17/2002  
ISSUE DATE:

LAZENA MARTIN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

DEC 16 2002

12-24-2002



U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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102320312

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

12-16-02

Lawrence Domash; Eugene Ma; Robert Murano  
Nikolay Nemchuk; Adam Payne; Steven Sherman  
Matthias Wagner; Ming Wu

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 10/16/02

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s) 10/174,503

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Eric L. Prahl

Internal Address: Hale and Dorr LLP

Street Address: 60 State Street

City: Boston State: MA Zip: 02109

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

08-0219

9. Signature.

24/2002 LMUELLER 00000059 080219 10174507

FD-1021

40.00 CH

Eric L. Prahl, Reg. No. 32,590

Name of Person Signing

Signature

December 10, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

## ASSIGNMENT

In consideration of other good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, we the undersigned Lawrence Domash, Conway, MA; Eugene MA, Brookline, MA; Robert Murano, Malden, MA, Nikolay Nemchuk, North Andover, MA; Adam Payne, Princeton, NJ; Steven Sherman, Arlington, MA; Matthias Wagner, Boston, MA; and Ming Wu, Princeton, NJ, hereby

Sell, assign and transfer to Aegis Semiconductor, Inc., a Massachusetts corporation having a place of business at 170 Commonwealth Street, Suite 204, Lawrence Massachusetts 01840, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on June 17, 2002 under Serial No. 10/174,503 and entitled INDEX TUNABLE THIN FILM INTERFERENCE COATINGS, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

We agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, we agree to carry out in good faith the intent and purpose of this assignment, by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to us relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

We hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

We covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

10-2-02

Lawrence H. Domash

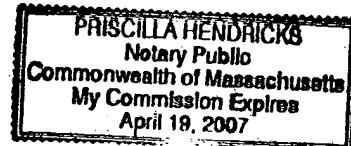
Date

LAWRENCE DOMASH

STATE OF MA:  
COUNTY OF BOSTON:

Subscribed and sworn to before me this 2ND day of OCTOBER.

SEAL Priscilla Hendricks  
Notary Public  
My Commission Expires \_\_\_\_\_



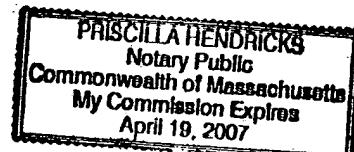
Date

EUGENE MA

STATE OF MA:  
COUNTY OF Middlesex:

Subscribed and sworn to before me this 11TH day of OCTOBER.

SEAL Priscilla Hendricks  
Notary Public  
My Commission Expires \_\_\_\_\_



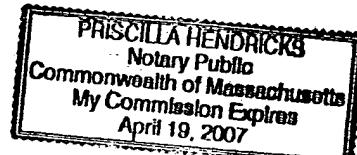
Date

ROBERT MURANO

STATE OF MA:  
COUNTY OF Middlesex:

Subscribed and sworn to before me this 11TH day of OCTOBER.

SEAL Priscilla Hendricks  
Notary Public  
My Commission Expires \_\_\_\_\_



10/15/02

Date

  
NIKOLAY NEMCHUK

STATE OF MA  
COUNTY OF Middlesex

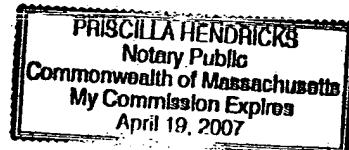
Subscribed and sworn to before me this 15<sup>th</sup> day of OCTOBER.

SEAL

Priscilla Hendricks

Notary Public

My Commission Expires \_\_\_\_\_



16 October 2002

Date

  
ADAM PAYNE

STATE OF Massachusetts  
COUNTY OF Middlesex

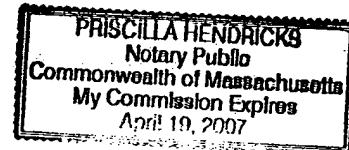
Subscribed and sworn to before me this 16<sup>th</sup> day of OCTOBER.

SEAL

Priscilla Hendricks

Notary Public

My Commission Expires \_\_\_\_\_



10/15/02

Date

  
STEVEN SHERMAN

STATE OF MA  
COUNTY OF Middlesex

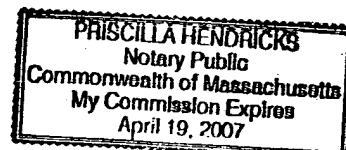
Subscribed and sworn to before me this 15<sup>th</sup> day of OCTOBER.

SEAL

Priscilla Hendricks

Notary Public

My Commission Expires \_\_\_\_\_



Date

10/15/02

Mattias Wagner  
MATTHIAS WAGNER

STATE OF MASSACHUSETTS  
COUNTY OF MIDDLESEX

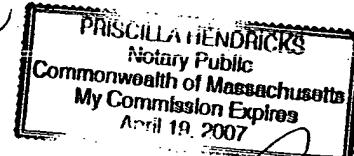
Subscribed and sworn to before me this 15<sup>th</sup> day of OCTOBER.

SEAL

Priscilla Hendricks

Notary Public

My Commission Expires



Date

10/16/02

MING WU

STATE OF MASSACHUSETTS  
COUNTY OF Middlesex

Subscribed and sworn to before me this 16<sup>th</sup> day of OCTOBER.

SEAL

Priscilla Hendricks

Notary Public

My Commission Expires

